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October 3, 2003

Via Electronic Mail and Certified Mail
Return Receipt Requested

Mr. Kevin Adler, Remedial Project Coordinator
U.S. Environmental Protection Agency, Region 5
Office of Superfund, Remedial & Enforcement Response Branch
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

Subject: Granville Solvents Site Removal Action Quarterly Report – Third Quarter 2003

Dear Mr. Adler:

On behalf of the Granville Solvents Site PRP Group, Metcalf & Eddy of Ohio, Inc. respectfully submits the Quarterly Report for the Removal Action at the Granville Solvents Site. Copies have been sent to the following individuals:

Mr. Steve Acree, U.S. EPA (2 copies)
Mr. Peter Felitti, U.S. EPA (cover letter)
Mr. Fred Myers, Ohio EPA (1 copy)
Mr. Joe Hickman, Manager, Village of Granville (1 copy)

If you have questions regarding this submittal, please contact me at (614) 890-5501.

Respectfully,

METCALF & EDDY OF OHIO, INC.

James A. Peeples, P.E.
Project Manager

cc: B. Pfefferle, Chairman - GSS PRP Group
William S. Brewer, PhD, Chairman – GSS PRP Group Technical Committee

GRANVILLE SOLVENTS SITE
REMOVAL ACTION QUARTERLY REPORT
FOR JULY, AUGUST and SEPTEMBER 2003

OCTOBER 2003

Pursuant to the requirement set forth in the Administrative Order by Consent (AOC, August 7, 1994) between the U.S. EPA and the Granville Solvents Site (GSS) Potentially Responsible Parties (PRP) Group, in Section 2.5-Reporting, and the letter, dated February 14, 1996, from Ms. Diane Spencer (U.S. EPA), this report constitutes the quarterly written progress report concerning actions undertaken pursuant to the AOC.

I. PROGRESS MADE DURING REPORTING PERIOD

Source Area Groundwater Control

The groundwater pumping and treatment system operated 744 hours in July, 744 hours in August, and 712 hours in September, for a total of 2,200 hours (99.63% of the total time available) during the third quarter of 2003. Since operation of the treatment system began in December 1994, the system has operated 98.6% of the available time.

The treatment system processed approximately 10.70 million gallons of water in July, 10.10 million gallons of water in August, and 9.91 million gallons of water in September, for a total of 30.71 million gallons of water for the quarter. Since operation began in December 1994, more than one billion gallons of groundwater (1,042,090,000 gallons) have been extracted and treated.

During the third quarter of 2003, M&E collected monthly air pressure measurements in the air-stripping unit's exhaust duct, which was used to calculate airflow values. The measured airflow was 2100 cfm in July, 2080 cfm in August and 2100 cfm in September. Acid washing of the air-stripping unit occurred in September.

M&E continued to perform the scheduled monthly maintenance on the treatment system. This maintenance ensures the system is performing at maximum efficiency and decreases unscheduled downtime. The maintenance included replacing the bag filters, lubricating the transfer pump and blower motors, and checking the flow meters and level sensors.

Water samples were collected from the system's influent and effluent sampling ports on July 17, August 28 and September 25. The analytical results are presented in Table 1.

Extraction well GSS-EW1 was operated at an average flow rate of approximately 70 gallons per minute (gpm) during the third quarter of 2003. Well GSS-EW2 was operated at an average flow rate of approximately 160 gpm during the third quarter of 2003. The total pumping rate averaged 242.65 gpm for the third quarter of 2003.

TABLE 1
Monthly Influent/Effluent Sampling Results

VOCs	Influent July 10	Effluent July 10	Influent August 19	Effluent August 19	Influent Sept 25*	Effluent Sept 25*
1,1,1-trichloroethane	12.0 µg/l	ND	12.0 µg/l	ND	NA	NA
Cis-1,2-dichloroethene	2.6µg/l	ND	2.5 µg/l	ND	NA	NA
Tetrachloroethene	14.0 µg/l	ND	12.0 µg/l	ND	NA	NA
Trichloroethene	16.0 µg/l	0.4 µg/l	14.0 µg/l	0.36 µg/l	NA	NA
1,1-dichloroethylene	ND	ND	ND	ND	NA	NA

* September Data not yet available (NA).

Approximately 30.71 million gallons of water were processed for the third quarter of 2003. Based on these data, total VOCs of approximately 0.17 lb/day in July, and 0.15 lb/day in August were discharged to the atmosphere during this reporting period. The September influent/effluent VOC data were not available at the time of this report. These data will be included in the next quarterly report.

Groundwater Monitoring

Groundwater level measurements were collected on August 29 during the quarterly groundwater sampling event. These data were used to develop potentiometric surface maps and the potentiometric map is included as Figure 1 with this report. Groundwater sampling for the Quarterly event was completed on August 28, 2003.

Source Area Soils

Source area soils are undergoing treatment at this time utilizing air injection (AI), air sparging (AS) and soil vapor extraction (SVE). The treatment systems have been in operation since September 2000. The soil vapor extraction system previously operated with a biweekly schedule in which one half of the SVE wells were operated during one period and one half operated during the alternate period. The vacuum extraction system under the cap was operated during all periods. The biweekly alternation was changed on May 2, 2003 such that all vacuum extraction wells were operated simultaneously. The average flow rate for the SVE system this quarter was approximately 553 scfm.

The total soil gas extracted by the SVE system for the quarter was approximately 73.4 million cubic feet. No measurable concentration of VOCs were present in the SVE effluent during this quarter (based on measurement with a PID). As a result, the total pounds of VOCs removed by the system have not changed since the previous quarter. A total of approximately 244 pounds of VOCs have been removed by the SVE system since start-up. Mass removal estimates are based on PID readings and SUMMA canister samples obtained periodically from the SVE influent. The removal rate for the SVE system has remained well below the de minimis allowed quantity of 10 pounds per day throughout this quarter.

Active or Completed Tasks

The following specific tasks were completed during the reporting period:

- Collected water samples on July 17, August 28, and September 25, 2003 from the treatment system influent and effluent sampling ports.
- Collected water level measurements on August 29, 2003 and generated a potentiometric surface based on these measurements.
- Continued to collect airflow data on a monthly basis.
- Collected the Quarterly suite of samples from monitoring network on August 28, 2003.
- Continued to operate the AI system on a 12 hour on/12 hour off cycle.
- Received permission from the Ohio EPA to remove SVOCs and metals from the parameter list for the influent/effluent sampling.

II. DELIVERABLES (CURRENT PERIOD AND NEXT PERIOD)

CURRENT PERIOD:

Deliverable	Due Date
Quarterly Report	October 7, 2003

NEXT PERIOD:

Deliverable	Due Date
Quarterly Report	January 7, 2004

III. DIFFICULTIES ENCOUNTERED REMEDIAL ACTIONS TAKEN THIS PERIOD

- None

IV. ANTICIPATED ACTIVITIES DURING NEXT REPORTING PERIOD

During the next reporting period, M&E will perform the following tasks:

- Collect potentiometric surface data on a Quarterly basis.
- Collect semiannual suite of samples from the groundwater monitoring network.
- Sample the treatment system influent and effluent water on a monthly basis, and analyze the samples for VOCs only.
- Perform scheduled maintenance of the treatment systems.
- Perform scheduled data collection for the treatment systems.
- Collect the quarterly suite of samples from monitoring network in August.
- Acid wash the Shallow Tray™ air stripper.
- Collect a SUMMA canister sample of the SVE effluent.
- Begin the process of shifting the pumping to well EW-2 only.

bcc: GSS-PRP Group Technical Committee
M. Andrew, M&E
File #036204175.0003.00007

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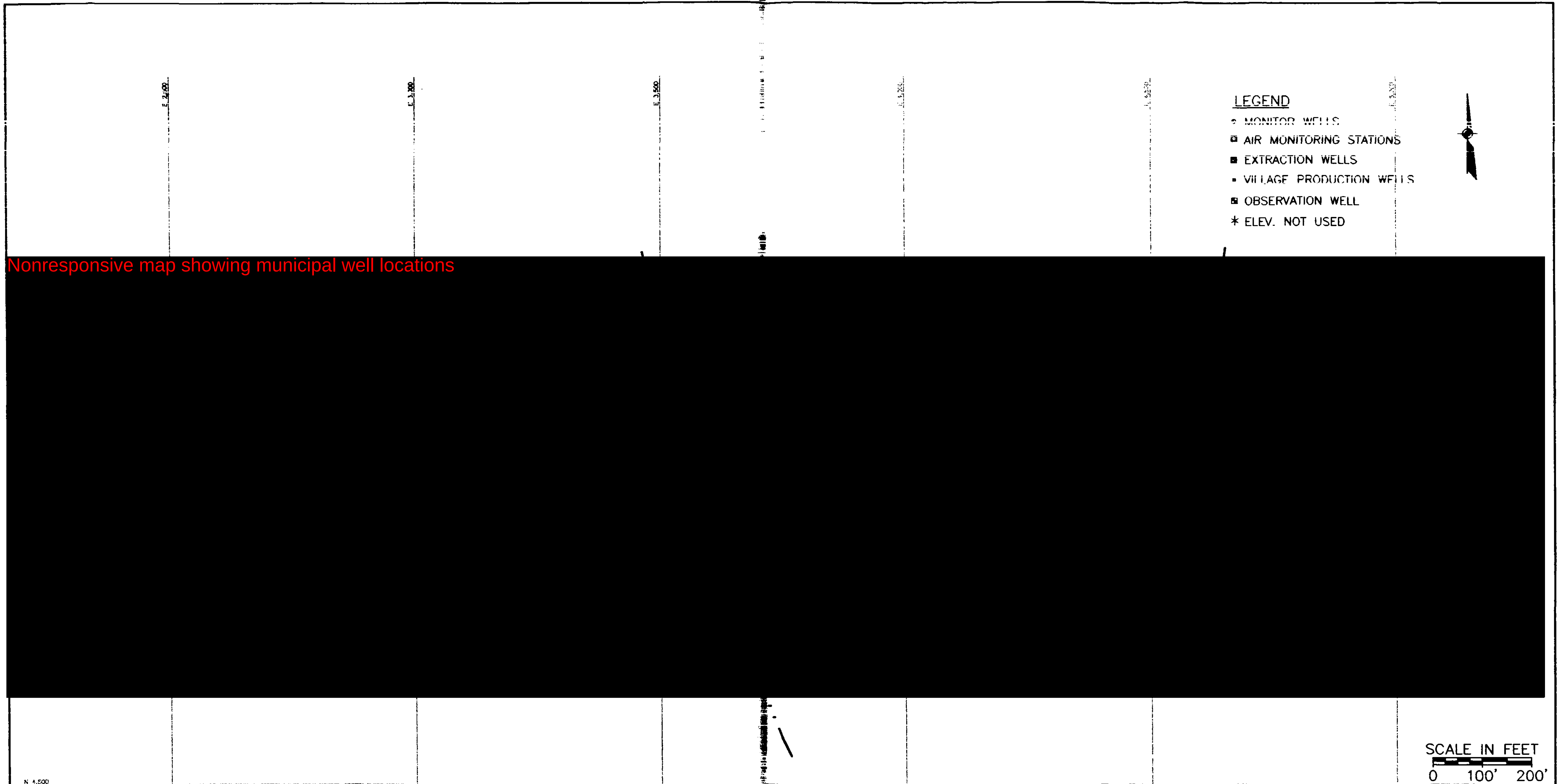

Nonresponsive map showing municipal well locations

[redacted]

Metcalf & Eddy

GRANVILLE SOLVENTS SITE

POTENTIOMETRIC SURFACE

AUGUST 28, 2003

GRANVILLE, OHIO

FILE NAME	CHECKED	DRAWN	DATE	PROJECT NO.	FIGURE
POTAUG03	JP	JAW	–	016688	3–10